ABSTRACT OF THE DISCLOSURE

System and method for batch-tuning multiple software components of an intelligent device. An intelligent device may include tunable components each associated with a tunable configuration file. A batch tuner may be used to generate batch configuration documents from the configuration files. The batch tuner may also be used to generate configuration files from a batch configuration document. In one embodiment, the batch configuration document and the configuration files are markup language documents. In one embodiment, an XML document type definition (DTD) may be used as the method of information exchange. In one embodiment, the batch tuner may use an API (e.g. DOM or SAX API) to access the batch configuration document and configuration files. In one embodiment, each component may be associated with an executable module conforming to the API, and the batch tuner may call the module for the component to generate the configuration file.